

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>440WO</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/GB 00/ 01303</b>	International filing date (day/month/year) <b>06/04/2000</b>	(Earliest) Priority Date (day/month/year) <b>06/04/1999</b>
Applicant <b>RENISHAW PLC et al.</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

2

☐ None of the figures.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 00/01303

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01B11/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 118 956 A (DUNNING CHRISTOPHER C ET AL) 2 June 1992 (1992-06-02) cited in the application column 5, line 9 -column 5, line 61; figure 3 ---	1,2,4
X	DE 42 44 240 A (ZEISS CARL FA) 30 June 1994 (1994-06-30) column 2, line 57 -column 3, line 65; figure 3 ---	1,2,4
X	US 5 103 572 A (RICKLEFS UBB0) 14 April 1992 (1992-04-14) cited in the application column 3, line 62 -column 4, line 48; figures 1,5 --- -/--	1,2,4,5

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&amp;" document member of the same patent family

Date of the actual completion of the international search

14 July 2000

Date of mailing of the international search report

26/07/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Beyfuß, M

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 00/01303

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 574 199 A (PRYOR TIMOTHY R) 4 March 1986 (1986-03-04) cited in the application column 2, line 58 -column 3, line 32; figure 1 -----	1,4

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 00/01303

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5118956	A	02-06-1992	EP 0415579 A 06-03-1991 JP 3223609 A 02-10-1991
DE 4244240	A	30-06-1994	NONE
US 5103572	A	14-04-1992	DE 3920716 C 29-11-1990 DE 59000402 D 03-12-1992 EP 0405176 A 02-01-1991 JP 3042505 A 22-02-1991
US 4574199	A	04-03-1986	US 4792698 A 20-12-1988

# INTERNATIONAL SEARCH REPORT

Intc onal Application No

PCT/GB 00/01303

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01B11/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 118 956 A (DUNNING CHRISTOPHER C ET AL) 2 June 1992 (1992-06-02) cited in the application column 5, line 9 -column 5, line 61; figure 3	1,2,4
X	DE 42 44 240 A (ZEISS CARL FA) 30 June 1994 (1994-06-30) column 2, line 57 -column 3, line 65; figure 3	1,2,4
X	US 5 103 572 A (RICKLEFS UBBO) 14 April 1992 (1992-04-14) cited in the application column 3, line 62 -column 4, line 48; figures 1,5	1,2,4,5
	-/-	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

\* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

14 July 2000

Date of mailing of the international search report

26/07/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Beyfuß, M

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 00/01303

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>US 4 574 199 A (PRYOR TIMOTHY R)  4 March 1986 (1986-03-04)  cited in the application  column 2, line 58 -column 3, line 32;  figure 1</p>	1,4

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 00/01303

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5118956	A	02-06-1992	EP 0415579 A JP 3223609 A	06-03-1991 02-10-1991
DE 4244240	A	30-06-1994	NONE	
US 5103572	A	14-04-1992	DE 3920716 C DE 59000402 D EP 0405176 A JP 3042505 A	29-11-1990 03-12-1992 02-01-1991 22-02-1991
US 4574199	A	04-03-1986	US 4792698 A	20-12-1988

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 00/01303

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01B11/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 118 956 A (DUNNING CHRISTOPHER C ET AL) 2 June 1992 (1992-06-02) cited in the application column 5, line 9 -column 5, line 61; figure 3	1,2,4
X	DE 42 44 240 A (ZEISS CARL FA) 30 June 1994 (1994-06-30) column 2, line 57 -column 3, line 65; figure 3	1,2,4
X	US 5 103 572 A (RICKLEFS UBBO) 14 April 1992 (1992-04-14) cited in the application column 3, line 62 -column 4, line 48; figures 1,5	1,2,4,5
	-/-	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

14 July 2000

Date of mailing of the international search report

26/07/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3018

Authorized officer

Beyfuß, M



# INTERNATIONAL SEARCH REPORT

Inter- national Application No  
PCT/GB 00/01303

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>US 4 574 199 A (PRYOR TIMOTHY R) 4 March 1986 (1986-03-04) cited in the application column 2, line 58 -column 3, line 32; figure 1</p>	1,4

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 00/01303

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5118956 A	02-06-1992	EP 0415579 A JP 3223609 A	06-03-1991 02-10-1991
DE 4244240 A	30-06-1994	NONE	
US 5103572 A	14-04-1992	DE 3920716 C DE 59000402 D EP 0405176 A JP 3042505 A	29-11-1990 03-12-1992 02-01-1991 22-02-1991
US 4574199 A	04-03-1986	US 4792698 A	20-12-1988